

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

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Federal Communication Commission
Bureau / Office

In re)
)
Amendment of Section 73.202(b))
of the Commission's Rules) MM Docket
Table of Allotments,)
FM Broadcast Stations) RM -
Olpe, Kansas)

To: Chief, Policy and Rules Division

PETITION FOR RULEMAKING

Great Plains Christian Radio, Inc. ("Great Plains"), hereby submits its petition for an amendment of Section 73.202(b) of the Commission's Rules that would reserve FM Channel 276A at Olpe, Kansas for noncommercial use.

Attached to this petition and incorporated by reference herein are the engineering statement and exhibits prepared by Larry Waggoner, consulting engineer for Great Plains, which demonstrate that the referenced FM channel meets the two distinct criteria set forth in the Second Report and Order in Reexamination of of the Comparative Standards for Noncommercial Educational Applicants, MM Docket 95-31, 18 FCC Rcd 6691 (paragraphs 34 through 40) (2003) ("NCE Second Report and Order"), pursuant to the instructions set forth in the Public Notice released by the Media Bureau on September 30, 2003, DA 03-2990. The complete technical preclusion showing required by the NCE Second Report and Order and the September 30, 2003 Public Notice is also attached.

014

Fm- MB
03-414

The reservation of Channel 276A will serve the public interest by assuring needed noncommercial educational radio service to the community of Olpe, Kansas and the surrounding listening area.

Great Plains is a noncommercial educational organization, and is the licensee of several operating full-service and translator FM radio stations. If the reservation requested herein is ordered by the Commission, Great Plains will file an application for a construction permit to build and, later, an application for a license to operate, a noncommercial FM station on this channel.

Respectfully submitted,

A handwritten signature in black ink, reading "Russell C. Powell". The signature is fluid and cursive, with the first name "Russell" being more prominent and the last name "Powell" following in a similar style.

Russell C. Powell
Attorney for Great Plains Christian Radio, Inc.

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November 19, 2003

OLPE, KANSAS

Channel #276A

Non-Commercial Allocation Study

November 14, 2003

LARRY P. WAGGONER

Broadcast Technical Consultant

1712 VALLEYVIEW CT. • WICHITA, KS 67212 • (316) 722-3726

Olpe, Kansas Channel #276A
Non-Commercial Allocation Study


This Non-Commercial Allocation Study will analyze the commercial FM allocation for channel #276A in Olpe, Kansas to determine its availability as a Non-Commercial assignment. The assignment must, as a maximum class facility, provide a first or second non-commercial service to at least 10% of the population inside the 1 mv/m or 60 dBu contour. This population must be at least 2,000 persons. The second requirement is that technical regulations must prevent the use of any reserve FM band assignment in the area.

The preclusion of reserve band channel allocation study was the first step taken for this report. A 60 dBu contour prediction study (Exhibit #1), using the allocation coordinates, determined the location of a maximum Class A 1.0 mv/m contour. Five FM reserve band allocation studies were conducted, using the allocation site and four compass point locations one kilometer inside the 1.0 mv/m contour. The five study point locations are shown in the Exhibit #2 map. The center or allocation site study is found as part of Exhibit #1. The 0°, 90°, 180° and 270° allocation studies are attached as Exhibits #3 and #4. No reserve band channels were found that could be assigned as a full Class A facility. Channels with a smaller contour overlap were studied in detail. An example is Channel #213 in the Exhibit #4 180° study. This study indicated that Channel #213 only had a 17 kilometer possible short spacing. The detailed study proved that Channel #213, at the 180° location, still could not be assigned as a full Class A facility.

The second part of the study determined that only three reserve band, non-commercial stations that serve Olpe, Kansas area. This station list is included as Exhibit #5. The Exhibit #6 map shows the location of the Olpe 1.0 mv/m contour and its relationship to the 1.0 mv/m contours of the three non-commercial stations. An area of first non-commercial service was found south of Olpe. Two smaller areas of second service were found southeast and west of the city.

The population inside the 1.0 mv/m contour of a possible, maximum Olpe channel 276A station would be 34,815 persons (2000 US Census). The population in the new first non-commercial service area would be 3,192, with an additional 1,052 persons in the two second non-commercial service areas. The 1st and 2nd service area populations added together total 12.2% of the 1.0 mv/m population.

This study supports the assignment of Channel #276A as a non-commercial allotment for the city of Olpe, Kansas. All information presented in this study is true and accurate to the best of my knowledge and ability.


Larry P. Waggoner
November 14, 2003

Larry Waggoner

Project: OLPE

EXHIBIT #1

11-11-2003

Site Coordinates: 38-12-39 North 96-10-50 West

NGDC 30-Second Database is used in Continental US

DEM-30 Database is used in AK, HI, and PR.

F(50,50) Contours

Azm (deg)	HAAT (mtrs)	70 dBu (km)	60 dBu (km)	Radial (mtrs)
0	105	16.6	28.9	361
45	108	16.8	29.3	358
90	96	15.8	27.7	370
135	124	18.1	31.1	342
180	114	17.3	30.0	352
225	90	15.2	26.9	376
270	87	15.0	26.4	379
315	75	13.9	24.7	391

Data in (feet) meters

Overall Height Above Average Terrain: (328) 100 •

Site Elevation AMSL: (1,214) 370

Antenna Height Above Ground Level: (315) 96

Antenna Center Above Sea Level: (1,529) 466

Overall Ground Average Terrain AMSL: (1,201) 366

Effective Radiated Power: 6.0000 kW *

TV/FM Channel: 276

FM Study for: CENTER

Location: OLPE, KS

FCC Database Date: 11/7/2003

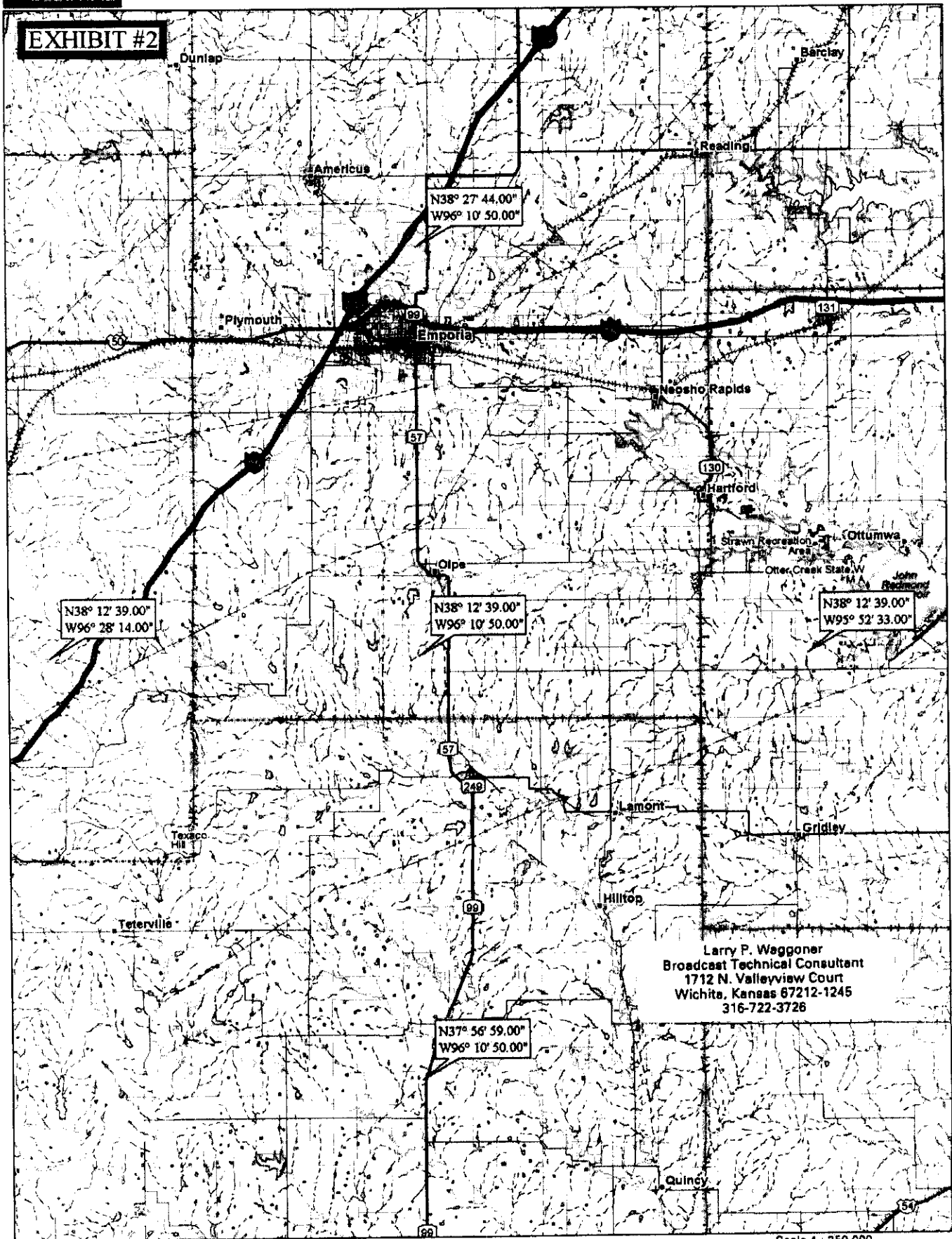
Channel Class: A

38-12-39

96-10-50

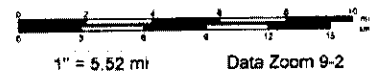
Chan 201	88.1	HIT COUNT:	5	MAX OVERLAP:	-82
Chan 202	88.3	HIT COUNT:	3	MAX OVERLAP:	-91
Chan 203	88.5	HIT COUNT:	5	MAX OVERLAP:	-37
Chan 204	88.7	HIT COUNT:	2	MAX OVERLAP:	-58
Chan 205	88.9	HIT COUNT:	2	MAX OVERLAP:	-24
Chan 206	89.1	HIT COUNT:	5	MAX OVERLAP:	-89
Chan 207	89.3	HIT COUNT:	3	MAX OVERLAP:	-23
Chan 208	89.5	HIT COUNT:	2	MAX OVERLAP:	-56
Chan 209	89.7	HIT COUNT:	3	MAX OVERLAP:	-97
Chan 210	89.9	HIT COUNT:	3	MAX OVERLAP:	-70
Chan 211	90.1	HIT COUNT:	6	MAX OVERLAP:	-86
Chan 212	90.3	HIT COUNT:	4	MAX OVERLAP:	-77
Chan 213	90.5	HIT COUNT:	5	MAX OVERLAP:	-45
Chan 214	90.7	HIT COUNT:	2	MAX OVERLAP:	-88
Chan 215	90.9	HIT COUNT:	2	MAX OVERLAP:	-45
Chan 216	91.1	HIT COUNT:	2	MAX OVERLAP:	-92
Chan 217	91.3	HIT COUNT:	5	MAX OVERLAP:	-25
Chan 218	91.5	HIT COUNT:	3	MAX OVERLAP:	-86
Chan 219	91.7	HIT COUNT:	3	MAX OVERLAP:	-50
Chan 220	91.9	HIT COUNT:	4	MAX OVERLAP:	-93

EXHIBIT #2



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Scale 1 : 350,000



11-12-2003

Larry Waggoner

EXHIBIT #3FM Study for: ZERO
Location: OLPE, KSFCC Database Date: 11/7/2003
Channel Class: A38-27-44
96-10-50

Chan 201	88.1	HIT COUNT:	7	MAX OVERLAP:	-107
Chan 202	88.3	HIT COUNT:	9	MAX OVERLAP:	-79
Chan 203	88.5	HIT COUNT:	10	MAX OVERLAP:	-38
Chan 204	88.7	HIT COUNT:	7	MAX OVERLAP:	-85
Chan 205	88.9	HIT COUNT:	6	MAX OVERLAP:	-34
Chan 206	89.1	HIT COUNT:	12	MAX OVERLAP:	-74
Chan 207	89.3	HIT COUNT:	6	MAX OVERLAP:	-37
Chan 208	89.5	HIT COUNT:	5	MAX OVERLAP:	-73
Chan 209	89.7	HIT COUNT:	8	MAX OVERLAP:	-103
Chan 210	89.9	HIT COUNT:	6	MAX OVERLAP:	-60
Chan 211	90.1	HIT COUNT:	6	MAX OVERLAP:	-80
Chan 212	90.3	HIT COUNT:	8	MAX OVERLAP:	-105
Chan 213	90.5	HIT COUNT:	7	MAX OVERLAP:	-67
Chan 214	90.7	HIT COUNT:	8	MAX OVERLAP:	-110
Chan 215	90.9	HIT COUNT:	7	MAX OVERLAP:	-67
Chan 216	91.1	HIT COUNT:	10	MAX OVERLAP:	-84
Chan 217	91.3	HIT COUNT:	5	MAX OVERLAP:	-37
Chan 218	91.5	HIT COUNT:	5	MAX OVERLAP:	-104
Chan 219	91.7	HIT COUNT:	5	MAX OVERLAP:	-65
Chan 220	91.9	HIT COUNT:	8	MAX OVERLAP:	-108

FM Study for: 90
Location: OLPE, KSFCC Database Date: 11/7/2003
Channel Class: A38-12-39
95-52-33

Chan 201	88.1	HIT COUNT:	5	MAX OVERLAP:	-90
Chan 202	88.3	HIT COUNT:	10	MAX OVERLAP:	-116
Chan 203	88.5	HIT COUNT:	10	MAX OVERLAP:	-49
Chan 204	88.7	HIT COUNT:	11	MAX OVERLAP:	-48
Chan 205	88.9	HIT COUNT:	9	MAX OVERLAP:	-46
Chan 206	89.1	HIT COUNT:	8	MAX OVERLAP:	-65
Chan 207	89.3	HIT COUNT:	8	MAX OVERLAP:	-45
Chan 208	89.5	HIT COUNT:	5	MAX OVERLAP:	-45
Chan 209	89.7	HIT COUNT:	7	MAX OVERLAP:	-88
Chan 210	89.9	HIT COUNT:	7	MAX OVERLAP:	-89
Chan 211	90.1	HIT COUNT:	7	MAX OVERLAP:	-60
Chan 212	90.3	HIT COUNT:	6	MAX OVERLAP:	-77
Chan 213	90.5	HIT COUNT:	7	MAX OVERLAP:	-47
Chan 214	90.7	HIT COUNT:	6	MAX OVERLAP:	-81
Chan 215	90.9	HIT COUNT:	8	MAX OVERLAP:	-38
Chan 216	91.1	HIT COUNT:	9	MAX OVERLAP:	-66
Chan 217	91.3	HIT COUNT:	7	MAX OVERLAP:	-35
Chan 218	91.5	HIT COUNT:	3	MAX OVERLAP:	-102
Chan 219	91.7	HIT COUNT:	7	MAX OVERLAP:	-35
Chan 220	91.9	HIT COUNT:	6	MAX OVERLAP:	-77

11-12-2003

Larry Waggoner

EXHIBIT #4FM Study for: 180
Location: OLPE, KSFCC Database Date: 11/7/2003
Channel Class: A37-56-59
96-10-50

Chan 201	88.1	HIT COUNT:	6	MAX OVERLAP:	-55
Chan 202	88.3	HIT COUNT:	9	MAX OVERLAP:	-96
Chan 203	88.5	HIT COUNT:	10	MAX OVERLAP:	-66
Chan 204	88.7	HIT COUNT:	11	MAX OVERLAP:	-30
Chan 205	88.9	HIT COUNT:	8	MAX OVERLAP:	-32
Chan 206	89.1	HIT COUNT:	7	MAX OVERLAP:	-99
Chan 207	89.3	HIT COUNT:	8	MAX OVERLAP:	-32
Chan 208	89.5	HIT COUNT:	4	MAX OVERLAP:	-34
Chan 209	89.7	HIT COUNT:	6	MAX OVERLAP:	-69
Chan 210	89.9	HIT COUNT:	3	MAX OVERLAP:	-86
Chan 211	90.1	HIT COUNT:	6	MAX OVERLAP:	-86
Chan 212	90.3	HIT COUNT:	5	MAX OVERLAP:	-48
Chan 213	90.5	HIT COUNT:	8	MAX OVERLAP:	-17
Chan 214	90.7	HIT COUNT:	6	MAX OVERLAP:	-60
Chan 215	90.9	HIT COUNT:	5	MAX OVERLAP:	-27
Chan 216	91.1	HIT COUNT:	3	MAX OVERLAP:	-94
Chan 217	91.3	HIT COUNT:	8	MAX OVERLAP:	-27
Chan 218	91.5	HIT COUNT:	5	MAX OVERLAP:	-63
Chan 219	91.7	HIT COUNT:	10	MAX OVERLAP:	-21
Chan 220	91.9	HIT COUNT:	5	MAX OVERLAP:	-73

FM Study for: 270
Location: OLPE, KSFCC Database Date: 11/7/2003
Channel Class: A38-12-39
96-28-14

Chan 201	88.1	HIT COUNT:	6	MAX OVERLAP:	-70
Chan 202	88.3	HIT COUNT:	10	MAX OVERLAP:	-67
Chan 203	88.5	HIT COUNT:	12	MAX OVERLAP:	-33
Chan 204	88.7	HIT COUNT:	9	MAX OVERLAP:	-62
Chan 205	88.9	HIT COUNT:	6	MAX OVERLAP:	-44
Chan 206	89.1	HIT COUNT:	6	MAX OVERLAP:	-111
Chan 207	89.3	HIT COUNT:	4	MAX OVERLAP:	-44
Chan 208	89.5	HIT COUNT:	4	MAX OVERLAP:	-73
Chan 209	89.7	HIT COUNT:	7	MAX OVERLAP:	-80
Chan 210	89.9	HIT COUNT:	3	MAX OVERLAP:	-50
Chan 211	90.1	HIT COUNT:	6	MAX OVERLAP:	-111
Chan 212	90.3	HIT COUNT:	6	MAX OVERLAP:	-70
Chan 213	90.5	HIT COUNT:	9	MAX OVERLAP:	-33
Chan 214	90.7	HIT COUNT:	8	MAX OVERLAP:	-75
Chan 215	90.9	HIT COUNT:	5	MAX OVERLAP:	-50
Chan 216	91.1	HIT COUNT:	4	MAX OVERLAP:	-117
Chan 217	91.3	HIT COUNT:	7	MAX OVERLAP:	-50
Chan 218	91.5	HIT COUNT:	6	MAX OVERLAP:	-67
Chan 219	91.7	HIT COUNT:	10	MAX OVERLAP:	-48
Chan 220	91.9	HIT COUNT:	6	MAX OVERLAP:	-84

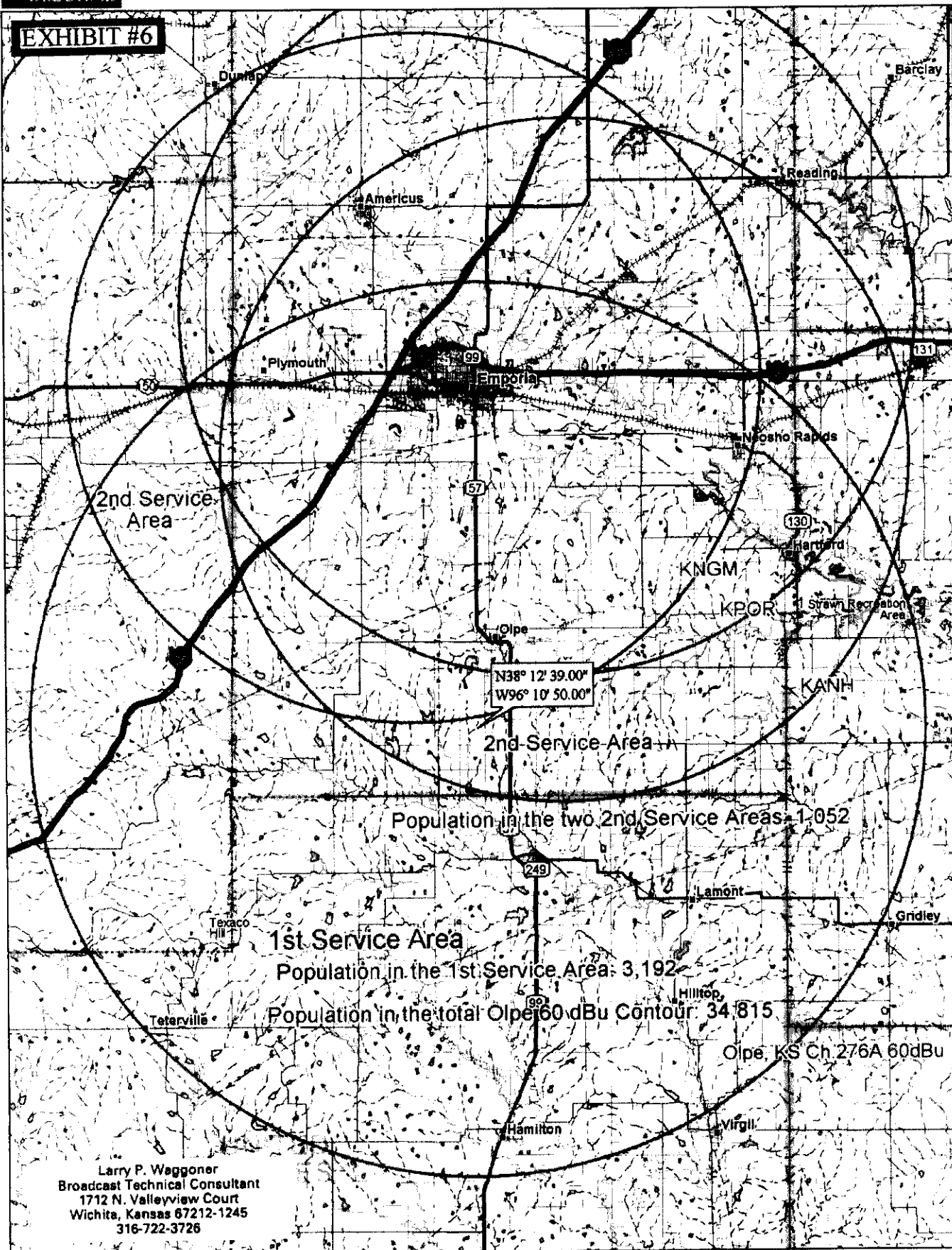
11-12-2003

Larry Waggoner
FCC Database Date: 11/7/2003

EXHIBIT #5

#	CALL STATUS	LOCATION STATE	CHANNEL CLASS	POWER	LATITUDE LONGITUDE	DISTANCE BEARING	OLPE
	OLPE PRO	OLPE KS	276 Class A	6.0 kW	38-12-39 96-10-50	Source Station	
1	KANH LIC	EMPORIA KS BLED-020502AAC	209 Class A	3.0 kW	38-21-45 96-07-00	18 km 18 dg	29 km 71 km WITHIN
2	KPOR LIC	EMPORIA KS BLED-000717AAT	214 Class A	2.0 kW	38-26-50 96-07-42	27 km 10 dg	29 km 10 km WITHIN
3	KNGM LIC	EMPORIA KS BLED-870127KA	220 Class A	3.0 kW	38-24-35 96-13-30	22 km 350 dg	29 km 47 km WITHIN

EXHIBIT #6



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